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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/506,379	09/02/2004	Thomas Purr	DE 020057	1207
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24737	7590	09/07/2006
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PHILIPS INTELLECTUAL PROPERTY & STANDARDS
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BRIARCLIFF MANOR, NY 10510

EXAMINER

MANCUSO, HUEDUNG XUAN CAO

ART UNIT	PAPER NUMBER
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2821

DATE MAILED: 09/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/506,379

Applicant(s)

PURR ET AL.

Examiner

Huedung Cao Mancuso

Art Unit

2821

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 16 June 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 02 September 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Applicant's remarks in their Appeal Brief were found to be convincing. Therefore, the previous Final rejection is withdrawn and the following new grounds of are made.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

3. Claims 1-10 are rejected under 35 U.S.C. 102(e) as being anticipated by Maoz et al. (US 6,466,176 B1).

Regarding claim 1, Maoz disclose a multiband microwave antenna see Maoz abstract, and figures 3, 4, 5, 8 having a substrate (101, 102) having at least a first and a second metallization structure (104, 105) and (109, 110), wherein the first metallization structure has at least a metal area (105) forming a resonator metal and a second metallization structure and the second metallization structure has at least a resonant printed conductor structure (110) and see Maoz column 9, line 51 to column 10, line 58, and figures 3, 4, 5, 8. It is noted that while a different embodiment is used for this claim than that of claim 1, the same reasoning applies as both embodiments contain the indicated elements of claim 1, and use similar element numbers with the main difference between them being substrate. The basic multiband microwave antenna being the same for both embodiment.

Regarding claim 2, in which the metallization structures are applied to mutually opposed main faces of a substantially parallelepiped substrate see Maoz, figure 8, and column 13, line 29-column 14, line 9.

Regarding claim 3, in which the substrate is arranged above a metallized base plate (103) that is at a reference potential see Maoz, column 9, lines 50-54.

Regarding claim 4, in which there is opened in the metal area of the first metallization structure at least a slot structure (slot 104) that segments said metal area, thus enabling at least two resonant frequencies to be excited see Maoz column 10, lines 20-36.

Regarding claim 5, in which the at least a slot structure is provided with at least a tuning slot (104a-104c, and column 10, line 25-33).

Regarding claim 6, in which the at least a printed conductor structure (PCB 102) is provided with a tuning slot (109a-109c, and column 10, line 50-59).

Regarding claim 7, which is fed via a feed pin (108a, and column 10, lines 5-6) that is connected to the first and/or to the second metallization (104, 105, 109, 110),.

Regarding claim 8, in which the first and/or the second metallization structure is connected to a shorting pin fastened to the metallized base plate (108b, 108c, and column 11, lines 8-11).

Regarding claim 9, a printed circuit board, particularly for a mobile telecommunications device, having a multiband microwave antenna see figures 1-2, and column 9, line 17-34.

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Regarding claim 10, a telecommunications device having a multiband microwave antenna see figures 1-2, and column 9, lines 17-34.

Due to a new ground of rejection, this action made NON-FINAL.

Conclusion

34. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Pelzer (US 2006/0071857 A1) disclose a miniaturized planar multiband antenna for HF or microwave frequency.

Inquiries

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Huedung Mancuso whose telephone number is (571) 272-1939.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy P. Callahan, can be reached on (571) 272-1740. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

5. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Huedung Mancuso
Patent Examiner

A handwritten signature in black ink, appearing to read "Huedung Mancuso", with a stylized flourish at the end.